

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/028,791	NEWELL ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Salman Ahmed	2666	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 9/14/05(35 USC CFR 1.131).
2. ☒ The allowed claim(s) is/are 1-5 and 15-20.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

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| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br/>Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</li> <li>6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date _____</li> <li>7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____</li> </ol> |
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### **DETAILED ACTION**

Claims 6-14 are cancelled

Claims 1-5 and 15-20 are allowable

### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Dennis R. Haszko on 03/24/2006 around 2:40 p.m.

Claims 6-14 are cancelled.

### ***Allowable Subject Matter***

1. Claims 1-5 and 15-20 are allowed.
2. The following is an examiner's statement of reasons for allowance: The instant application claims a method of establishing a data transfer connection between a first node and a second node across a domain which only allows unidirectional data flow, the method comprising: a) sending a setup message from the first node to the second node, setup message containing a first connection service Label for a backward

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direction of data flow, backward direction being from second node to first node; b) receiving setup message at second node and reserving first connection service Label for data being sent from second node to first node; c) sending a response message from the second node to the first node, response message containing a second connection service Label for a forward direction of data flow, forward direction being from second node to first node; and d) receiving response message at first node and reserving second connection service Label for data being sent from first node to second node, wherein for forward data transmission in forward direction, data packets for forward data transmission will be labelled with second connection service Label and for a backward data transmission in backward direction, data packets for backward data transmission will be Labeled with first connection service Label.

The cited prior art Cisco MPLS Controller Software Configuration Guide Release 9.3.0 April, 2000, hereinafter referred to as Cisco teaches a method of establishing a data transfer connection between a first node (page 2-13, figure 2-8, RTA) and a second node (page 2-13, figure 2-8, RTB) across a domain (page 2-13, figure 2-8, Link between RTA and RTB) which only allows unidirectional data flow (page 2-13, figure 2-8, MPLS over ATM), the method comprising: a) sending a setup message from the first node to the second node (page 2-13, line 8, RTA sends a label binding request toward RTB to bind prefix 128.89.0.0/16 to a specific VCI), c) sending a response message from the second node to the first node (page 2-13, line 14, RTB sends a reply to RTA with the binding between prefix 128.89.0.0/16 and the VCI 40 label), response message containing a second connection service label (page 2-13, line

14, VSI 40) for a forward direction of data flow, forward direction being from second node to first node; and d) receiving response message at first node and reserving second connection service label for data being sent from first node to second node (page 2-13, line 15, RTA then creates an entry in its LFIB and sets the outgoing label to VCI 40), wherein for forward data transmission in forward direction, data packets for forward data transmission will be labeled with second connection service label (page 2-13, line 15, RTA then creates an entry in its LFIB and sets the outgoing label to VCI 40).

The cited prior art Katsube et al. (US PAT 6341127) discloses a router device for controlling label switching path set up. In the router device, a policy information indicating a permitted starting point of a label switching path is stored, and a request message that contains a starting point information indicating a starting point node/network of the requested label switching path and a stream information indicating a desired packet stream to be transferred through the requested label switching path is received. Then, whether or not to permit the set up of the requested label switching path is judged by comparing the starting point information contained in the request message with the stored policy information, and the requested label switching path through the router device for the desired packet stream indicated by the stream information contained in the request message is set up when the set up of the requested label switching path is judged as permitted. Instead of the starting point information, a neighbor information, a stream information, or an ending point information may be used.

The cited prior art Gibson et al. (US PAT 6680943), teaches on receipt of a request for a communication session over a communications network, such as an Internet Protocol communications network, a path for the session is established. The communications network is an MPLS network and the method uses a modified version of the SIP messaging protocol. Bandwidth along a chosen path is reserved and a messaging protocol such as CR-LDP used to establish this reserved path for the communication session. Internet protocol and MPLS communications networks typically only support uni-directional flows. Several methods for establishing bi-directional communication sessions over internet protocol communications networks that use MPLS connections are described.

The cited prior arts alone or in combination fail to jointly suggest or teach the claimed combination of features as taught by the instant application. Cisco, Katsube, and Gibson do not specifically teach setup message containing a first connection service label for a backward direction of data flow, backward direction being from second node to first node; receiving setup message at second node and reserving first connection service label for data being sent from second node to first node; and for a backward data transmission in backward direction, data packets for backward data transmission will be Labeled with first connection service label. Therefore claims 1-20 are to be deemed allowable over cited prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Prior art pertinent to the application but not used in office action:

- US 6374303 B1                      USPAT              Explicit route and multicast tree setup using label distribution      Armitage; Grenville John et al.
- US 6879594 B1                      USPAT              System and method for loop avoidance in multi-protocol label switching      Lee; Cheng-Yin et al.
- US 6594260                              USPAT              Aviani et al.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Salman Ahmed whose telephone number is (571)272-8307. The examiner can normally be reached on 8:30 am - 5:00 pm.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou can be reached on (571) 272-3088. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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SA  
03/29/2006



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